



DEPARTMENT OF THE NAVY

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN PORTSMOUTH, VIRGINIA, ENVIRONMENTAL DETACHMENT CHARLESTON 1899 NORTH HOBSON AVENUE, BUILDING 30 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

IN REPLY REFER TO:

Ser 290 MAR 3 1 1998

Mr. Johnny Tapia South Carolina Department of Heath And Environmental Control Bureau of Solid and Hazardous Waste Management 8901 Farrow Road Columbia SC 29201

RE: Completion Report (Chain of Custody & laboratory signature sheets)

Dear Mr. Tapia

Enclosed is the Chain of Custody and laboratory signature sheets as requested by Mr. Bergstrand. Please insert the applicable pages in each Completion Report. Inquires should be directed to Jed Heames at 743-6306 ext. 123 or Kevin Tunstall at ext. 227.

Kern Tonstall Kevin Tunstall

Distribution:

USEPA (Spariosu)

SDIV (Batten)

EnSafe (Haverkost)

SCDHEC (Bergstrand)

NP10000196

Page____ of ____

CHAIN OF CUSTODY RECORD

9702574

General Engineering Labour, 2040 Savage Road Charleston, South Carolina 2 2414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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White = sample collector

CHAIN OF CUSTODY RECORD

2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

s. Inc.

General Engineering Labor

Page of 9709134 Use F or P in the boxes to indicate whether Client Name/Facility Name SPORTENUDETCHASN Collected by/Company CCL 28814 SPORTENV DETERMEN Remarks TIME SAMPLE ID DATE NBCK 696 JOOG 1 OB -01 SPORTUSO7-1 9/5/97 1020 -095POITT\$5\$7-Z 9/5/97 1\$2\$ NBCK 6963 & & & Z & & 03 SPORTO 507-3 9/5/97 10 20 NBCK696JaQQ3QQ Relinquished by: Relinguished by: (1) . K. H. o. a. Ja h Time; Remarks! Jang S. Har tey 109-05-97 1113 Relinguished by Received by lab by:

Pink = with report

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General Engineering Labo: 2040 Savage Road Charleston, South Carolina 29407

Inc.

P.O. Box 30712

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CHAIN OF CUSTODY RECORD

General Engineering Labora U.S., Inc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Yellow = file

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General Engineering L. ries, Inc. 2040 Savage Road
Charleston, South Carolina 29407
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page of 2 9710121 SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or method Client Name/Facility Name Use F or P in the boxes to indicate whether sample was filtered and/or preserved SPORTENDETCHISN Collected by/Company CCL 29291 SPORTENV DETCHASA Remarks SAMPLE ID DATE TIME NBCK 6965 ND/DP/ -01 SPORT \$536-1 10/6/97 1145 . 1 NBC 16965001101 5PORTA 536-2 10/6/97 1147 -03 SPORTA 536-3 10/6/97 1149 185K6965001201 UBC 16 965 DE 1301 -04 SPORTO 536-4 10/6/97 1151 -OS SPURIO 536-5 11/6/97 1153 VBC/6465 & 21401 -06 SPORTO 536-6 10/6/97 NBC 1696 50015 &/ 1155 10/6/97 1158 SPORTES 536-7 VACY 6965001601 VBCK696504/74/ SPORTU536-8 10/6/97 1201 -09 NACHOS WA/84/ SPORTU 536-9 10/6/97 1203 NBC 16965&&1921 1205 SPORTU 536-10 10/6/97 NBC \$ 69654 & ZOOL 1208 SPORIQ536-11 10/6/97 -12 SPORTUS 536-12 10/0/97 1211 16965882181 DEPORTUS36-13 10/6/97 1221 64650022 NV Relinguished by Received by: Relinguished by: 1325 I. L. Senter 196/97 Dale: Rolfiquished by: Time: Remurks: 0697 1540

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CHAIN OF CUSTODY RECORD

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General Engineering Laboratories, Inc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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CHAIN OF CUSTODY RECORD

General Engineering Labor. "Inc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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General Engineering Laboratories, Inc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carelina 29417 (803) 556-8171

CHAIN OF CUSTODY RECORD

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White = sample col	lector `	Yellow = fi	le	P	ink	= wi	th re	port	l			- 1											

CHAIN OF CUSTODY RECORD

General Engineering La ies, Inc. 2040 Savage Road Charleston, South Carolina 29414 P.O. Box 30712 Charleston, South Carolina 29417 (202) 556 8171

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CHAIN OF CUSTODY RECORD

General Engineering Labo , Inc.
2040 Savage Road
Charleston, South Carolina 29414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

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CHAIN OF CUSTODY RECORD

General Engineering Lab	5,	In
2040 Savage Road		
Charleston, South Carolina 2941	4	
P.O. Box 30712		
Charleston, South Carolina 2941	7	
(002) 556 0121		

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General Engineering Labo. Ls, Inc. 2040 Savage Road Charleston, South Carolina 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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CHAIN OF CUSTODY RECORD

General Engineering Laborato 2040 Savage Road Charleston, South Carolina 2940, P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Page 1 of 1

CHAIN OF CUSTODY RECORD

General Engineering Labora nc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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2040 Savage 1. Charleston, South C CHAIN OF CUSTODY RECORD P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

General L.

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Laboratory Certifications

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NC	233	
SC	101 20	10582
IN	02934	02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 3 of 3

	Sample ID	: SPORT0334-1	
M = Method		Method-Description	
M 1		EPA 8260	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

02934

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 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233
 10120
 10582

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 2 of 2

02934

Sample ID

: SPORT0334-2

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Karon Blakeney
Reviewed By



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 EPI

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 E87156/87294
 E87472/87458

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 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: February 21, 1997

Page 2 of 2

	Sample ID	: SPORT0334	-3	
Surrogate Recovery	Test	Percent%	Acceptable Limits	
2-Fluorobiphenyl	M610	78.0	(43.0 - 108.)	
Nitrobenzene-d5	M610	72.6	(35.0 - 111.)	
p-Terphenyl-d14	M610	71.6	(33.0 - 125.)	
Bromofluorobenzene	BTEX-8260	98.5	(73.8 - 128.)	
Dibromofluoromethane	BTEX-8260	96.0	(63.9 - 139.)	
Toluene-d8	BTEX-8260	96.6	(77.1 - 121.)	
Bromofluorobenzene	NAP-8260	98.5	(73.8 - 128.)	
Dibromofluoromethane	NAP-8260	96.0	(63.9 - 139.)	
Toluene-d8	NAP-8260	96.6	(77.1 - 121.)	

M = Method	Method-Description	
M 1	EPA 8260	
M 2	EPA 8270	
M 3	EPA 3510	

Notes:

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Koulm Blakener Reviewed By NPW 00196 Page 1 of 1

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General Engineering Labo s. Inc. 2040 Savage Road Charleston, South Carolina 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Supervisor of Ship Building & Conversion

 $SUPSHIP\mbox{-}Portsmouth\ Detachment\mbox{-}Env.$

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact;

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

	Sample 1D	: SPORT0352-1	
M = Method		Method-Description	
M 1		EPA 8260	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 06, 1997

CDODTOLES A

Page 3 of 3

	Sample ID	: SPORT0352-2	
M = Method		Method-Description	
M 1		EPA 8260	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00196

Report Date: March 06, 1997

Page 3 of 3

02934

	Sample ID	: SPORT0352-3		
M = Method		Method-Description		
M 1		EPA 8260		
M 2		EPA 8270		
M 3		EPA 6010A		
M 4		EPA 9071		
M 5		EPA 3550	,	
M 6		EPA 7471		

Notes:

M 7

The qualifiers in this report are defined as follows:

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EPA 3050

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Supervisor of Ship Building & Conversion

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

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Report Date: March 06, 1997

Page 3 of 3

	Sample ID	: SPORT0352-4	
M = Method		Method-Description	
M 1		EPA 8260	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

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Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00196

Report Date: March 06, 1997

Page 2 of 2

Sample ID

: SPORT0352-5

M = Method

Method-Description

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Charleston, South Carolina 29417

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Laboratory Certifications

STATE FL	GEL E87156/87294	EPI E87472/87458
NC	233	
SC	10120	10582
TN	0 2934	02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

	Sample ID	: SPORT0411-1	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Project Description:

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Report Date: April 16, 1997

Page 3 of 3

	Sample ID	: SPORT0411-2	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

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SC	10 120	10582
TN	02934	02934

Client:

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Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

	Sample ID	: SPORT 0411-3
M = Method		Method-Description
M 2		EPA 8270
M 3		EPA 6010A
M 4		EPA 9071
M 5		EPA 3550
M 6		EPA 7471
M 7		EPA 3050

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TN	02934	02934

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Contact:

Mr. Bill Hiers

Project Description:

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c: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

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: SPORT0411-4

M = Method	Method-Description	
M 2	EPA 8270	
M 3	EPA 6010A	
M 4	EPA 9071	
M 5	EPA 3550	
M 6	EPA 7471	
M 7	EPA 3050	

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Client:

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 16, 1997

Page 3 of 3

Sample II

: SPORT0411-5

M = Method	Method-Description	
M 2	EPA 8270	
M 3	EPA 6010A	
M 4	EPA 9071	
M 5	EPA 3550	
M 6	EPA 7471	
M 7	EPA 3050	

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Contact:

Mr. Bill Hiers

Project Description:

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cc: NPWC00197

Report Date: April 14, 1997

Page 2 of 2

Sample ID

: SPORT0411-6

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

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~KO II

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Yellow = file

Pink = with report

Wmte = sample collector

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2040 Savage Road

P.O. Box 30712

Page ____ of ____ Charleston, South Carolina 29417 9704187 (803) 556-8171 Client Name/Facility Name Use For P in the boxes to indicate whether SPORTENYDETCHASH CL 26565 Collected by/Company SPORTENVDETCHASN Remarks SAMPLE ID DATE TIME 01 Sport 2411-1 41897 1300 NBCE 574 S000901 4/8/97 ×× NBCE 5745 OULDI 1315 abeth wall × × × NECE 5745001101 4/8/97 1325 4/8/97 1335 ×NBCE 5745001201 NBCE 574001301 NBCE 574001301 mwj. Dudus ESSport 0411-5 418197 1335 EP Sport 0411-6 418197 NBCE 574 TOO HO! 1300 DETECTION LIMITS: 1000 ppm PAH - 0.78 PPM Relinquished by: Relinquished by: les J. 4/8/97/1435



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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233
 10582

 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 11, 1997

Page 2 of 2

Sample ID

: SPORT0360-1

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit, indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed Ru

Printed on recycled paper

MYWC WUMP

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CHAIN OF CUSTODY RECORD

General Engineering Laboratories, Inc. 2040 Savage Road Charleston, South Caro P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

Page of		-						- 4	10		_						_							eston, South (556-8171	_aronna 2	9417
Client Name/Facility	Name	DACL	,		l s		SAN	<u> </u>	ANALY					remar	ks area	to speci	ity spec	eific con	1 1		1 1		*	se I or P in the boxe sample was filtered		
SPORTEN Collected by/Company SPORTEN	NDET	JAKCOA CHAS	2 N	,	# OF CONTAINERS	pH. conductivity	00	X	Chloride. Fluoride. Sulfide	Nitrite/Nitrate	VOC - Specify Method required	S - specify		de	henol	Acid Extractables	B/N Extractables	Hd L	ىد	Coliform - specify	P-melas		C	CL Z	590	3
SAMPLE ID	DATE	TIME	WELL	SOIL	GRAB # OF C	pH. con	TOC/DOC	1	Chlorid Suffide	Nitrite/	VOC .	METAI	Pesticide	Herbici	Total Phenol	Acid Ex	B/N Ex	-	Cyanide	Colifori	5			Rem	arks	
3Port Ø360-1	2/27/97	69 :07		X	4	L		×				\times	·					×			×	1	NBC	₹574S	00800	<u> </u>
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NPWCOOM

CHAIN OF CUSTODY RECORD

General Engineering La es, Inc. 2040 Savage Road Charleston, South Carolina 29407 P.O. Box 30712 Charleston, South Carolina 29417

Page of	<u> </u>									ANAL	٦(אדיכ	46	5	1									(803) 556-8171
Client Name/Facility N						T.,	H	SAN	ИРLÉ Т Т	ANAL	YSIS	REQU	IRED	(z) - u	se rema	rks area	to spec	ify spec	cific cor	npounc	ls or me	thods	T T	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
SPORTENY Collected by/Company		W. SinAL	اح			TAINERS	ctivity	1		Puoride,	1 2	cify	y Specify				ccables	clebics	8年文		specify			→ · · · · · · · · · · · · · · · · · · ·
SPORTEN SAMPLE ID	DATE			SOIL	GRAB	# OF CONTAINERS	pH, conductivity	тослос	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Spe	METALS Specify	Pesticide	Herbidde	Total Phenol	Acid Extractables	B/N Extractables	Si val	Cymide	Coliform - specify type	HOL	PAI	Remarks
SBETO482-2	7/21/97	1024		УΥ		4							×						*			×	×	NBCITAROSOTOS
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Yellow = file

White = sample collector

Pink = with report



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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233

NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 30, 1997

Page 2 of 2

Sample ID

: SPORT0484-2

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

iewed By





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Laboratory Certifications	28	ificatio	•	boratory	
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STATE GEL EPI FL NC E87156/87294 E87472/87458 233 10120 SC TN 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: July 30, 1997

Page 3 of 3

	Sample ID	: SPORT0484-1	
M = Method	-	Method-Description	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

indicates that the analyte was not detected at a concentration greater than the detection limit.

udicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Blakiner

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.

TP100 20091

CHAIN OF CUSTODY RECORD

General Engineering Lab s, Inc. 2040 Savage Road
Cbarleston, South Carolina 29414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page of	9703505	(803) 556-8171
Client Name/Facility Name	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods	Use F or P in the boxes to indicate whether sample was filtered and/or preserved
SPORTENV DET CHASN Collected by/Company SPORTENV DET CHASN	, g g g g -1 g	
Collected by/Company WSMALLS	ctivity Tate scify opinical nol nol specify specify specify	d CU_26335
SPORTENUDET CHASH &	onduine. Photo Phen Phen Phen Phen Phen Phen Phen Phen	1 ±
SAMPLE ID DATE TIME SOIL # OF COMP	PH. conductivity TOC/DOC TOX Chloride. Fluoride. Sulfide Nitrite/Nitrate Nitrite/Nitrate Nitrite/Nitrate Nitrite/Nitrate Total Phenol Acid Extractables B/N Extractables PCB's Coliform - specify type	Remarks
SPORT \$386-13/24/1070835 XXA	$\langle \rangle$	X NBCITO 75000101
SPORT \$386-2 3/24870906 N X4		X NBCITOTS OF OZO
SPORT#386=33/24/9-0915 XX4		X NBCI7075000341
SPORT \$386-43/21/9-0925 XX4		X NECT 707540040
5PORTØ386-531241970940 XX4		X NBCI7075000501
SPORT \$386-6 3/24/97 0745 XXI	<u> </u>	NECT 707Tababas
<u>.</u>		· · · · · · · · · · · · · · · · · · ·
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		1000
	Relinquished by:	- 1 1/1/1/12
William: Il Anasillo 3/21/17 1000 () Religguished by: Date: Time: Rec	ived by lab by: Date: Time: Remarks:	4192 1530 ((H) MILLIA ()
Catherine Ld 3.21.77/1955 2		



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL FL NC SC TN E87472/87458 E87156/87294 233

10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 2 of 2

Sample ID

: SPORT0386-6

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakener Reviewed By





Meeting today's needs with a vision for tomorrow,

Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233
 SC
 10120
 10582

 TN
 02934
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID

: SPORT0386-5

M = Method

Method-Description

M 7

EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

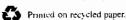
I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Blakene

Paviawad Ru



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233

SC 10120 TN 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID

: SPORT0386-4

M = Method	Method-Description	
M 6	EPA 7471	
M 7	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Kalen Blakeney
Reviewed By



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meening today's needs with a siston for tomorrow

Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233

 SC
 10120
 10582

SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

	Sample ID	: SPORT0386-3	
M = Method		Method-Description	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Karen Blakeney

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL EPI E87156/87294 E87472/87458 FI. NC SC TN 233 10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

M = Method		Method-Description
	Sample ID	: SPORT0386-2

EPA 7471 M 6 M 7 EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Karen Blakemer Reviewed By



^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



Meeting roday's needs with a vision for tomorrow

Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 01, 1997

Page 3 of 3

Sample ID

: SPORT0386-1

M = Method	Method-Description	
M 6	EPA 7471	
M 7	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Kaun Blaking

NPWC00196

White = sample collector

Yellow = file

Pink = with report

CHAIN OF CUSTODY RECORD

General Engineering Labor.	atories, Inc.
2040 Savage Road	
Charleston, South Car	4
P.O. Box 30712	
Charleston, South Carolina	29417
(9/12) 554 9171	

9763404
SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods (803) 556-8171 Client Name/Facility Name Use F or P in the boxes to indicate whether SPORTENVDETCHASH 26269 Collected by/Company Nitrite/Nitrate SPORTENVDETCHASH Remarks DATE TIME SAMPLE ID X X NBCH7685660301 .01 SPORT#38#-1 3/1997 10/45 X X NBCH 708 SOOD 9 91 07 SPORTO 380-2 3/19/97/1/64 X X NBCH7685006501 03 SPORT\$38\$-3 31191971115 of sport \$386-4 3/19/97 \$936 NBCH708T000601.2 NOTE: SEE ATTACHED SHEET FOR Limits. METALS! D RCRA METALS 2) ANTIMONY 3) BERELLIUM Relinquished by: Date: Time: Received by: Refinguished by: Received by: of I 21 Counte 150/1 Saigh 3/17/97 1250 2011-1- 1 3/15/5 /340 Received by lab by: Remarks:



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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233
 SC
 10120
 10582

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 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 1 of 3

Sample ID

: SPORT0380-1

Lab ID Matrix : 9703404-01

Date Collected

: Soil : 03/19/97

Date Received

: 03/19/97

Priority

: Routine

Collector

: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	M
Volatile Organics			.							
BTEX - 4 items										
Benzene	ប	0.00	1.00	2.00	ug/kg	1.0	RMB 03/26/97	1334	99708	
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0				
Toluene	U	0.00	1.00	2.00	ug/kg	1.0				
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0				
Extractable Organics										
Polynuclear Aromatic H	ydrocarbons -	16 items								
Acenaphthene	υ	0.00	1670	3330	ug/kg	10.	DLW 03/27/97	1820	99514	2
Acenaphthylene	U	0.00	1670	3330	ug/kg	10.				
Anthracene	U	0.00	1670	3330	ug/kg	10.				
Benzo(a)anthracene	U	0.00	1670	3330	ug/kg	10.				
Benzo(a)pyrene	U	0.00	1670	3330	ug/kg	10.				
Benzo(b)fluoranthene	U	0.00	1670	3330	ug/kg	10.				
Benzo(ghi)perylene	U	0.00	1670	3330	ug/kg	10.				
Benzo(k)fluoranthene	U	0.00	1670	3330	ug/kg	10.				
Chrysene	U	0.00	1670	3330	ug/kg	10.				
Dibenzo(a,h)anthracene	U	0.00	1670	3330	ug/kg	10.				
Fluoranthene	U	0.00	1670	3330	ug/kg	10.				
Fluorene	U	0.00	1670	3330	ug/kg	10.				
Indeno(1,2,3-c,d)pyrene	e U	0.00	1670	3330	ug/kg	10.				
Naphthalene	U	0.00	1670	3330	ug/kg	10.				
Phenanthrene	U	0.00	1670	3330	ug/kg	10.				
Pyrene	U	0.00	1670	3330	ug/kg	10.				
PCB analysis - 7 items										
PCB-1016	บ	0.00	32.9	41.6	ug/kg	10.	JPA 03/22/9	7 0416	99445	5 3
PCB-1221	U	0.00	32.9	41.6	ug/kg	10.				
PCB-1232	U	0.00	32.9	41.6	ug/kg	10.				
PCB-1242	U	0.00	32.9	41.6	ug/kg	10.	ı			

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407







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Laboratory Certifications

STATE GEL FL E87156/87294 E87472/87458 NC SC TN 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

	Sample ID		: SPORT0380-1								
Parameter	Qualifier	Resuit	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
PCB-1248	U	0.00	32.9	41.6	ug/kg	-10	_				
PCB-1254	U	0.00	32.9	41.6	ug/kg	10.	JPA 03	3/22/97	0416	99445	3
PCB-1260	U	0.00	32.9	41.6	ug/kg	10.					
Metals Analysis											
Mercury	1	0.0708	0.0149	0.200	mg/kg	1.0	RMJ 03	3/27/97	1655	99548	N
Silver	U	-5.36	40.0	944	ug/kg	2.0	MBL 03	3/28/97	1239	99451	4
Arsenic		1440	260	944	ug/kg	2.0					
Barium		15100	23.3	944	ug/kg	2.0					
Beryllium	ı	140	12.7	472		2.0					
Cadmium		1660	19.7	472		2.0					
Chromium		30000	58.6	944	ug/kg	2.0					
Nickel		4740	94.0	944	ug/kg	2.0					
Lead		20300	129	472		2.0					
Antimony	U	128	174	944		2.0					
Selenium	1	423	215	472	• •	2.0					
General Chemistry					•						
Total Rec. Petro. Hydr	rocarbons	3120	10.0	50.0	mg/kg	1.0	SLR 0	3/ 25/9 7	1000	99 658	5

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

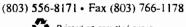
PCB's Mercury TRACE MCS 03/25/97 1500 99514 6 GWL 03/20/97 1652 99445 6 CRB 03/21/97 2130 99548 7 DVW 03/21/97 1930 99451 8

Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)

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Laboratory Certifications

STATE GEL FPI FL NC SC TN E87472/87458 E87156/87294 233

10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 3 of 3

	Sample ID	: SPORT0380)-1	
Surrogate Recovery	Test	Percent%	Acceptable Limits	
4CMX	PCB	130.	(36.5 - 172.)	• :
Bromotluorobenzene	BTEX-8260	1 09 .	(53.5 - 154.)	
Dibromofluoromethane	BTEX-8260	116.	(63.4 - 136.)	
Toluene-d8	BTEX-8260	100.	(72.1 - 137.)	

M = Method	Method-Description	
M 1	EPA 8260	
M 2	EPA 8270	
M 3	EPA 8080	
M 4	EPA 6010A	
M 5	EPA 9071	
M 6	EPA 3550	
м 7	EPA 7471	
M 8	EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct

any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Blakene



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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87458

 NC
 233

 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Collector

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

: Client

Page 1 of 3

 Sample ID
 : SPORT0380-2

 Lab ID
 : 9703404-02

 Matrix
 : Soil

 Date Collected
 : 03/19/97

 Date Received
 : 03/19/97

 Priority
 : Routine

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	RMB 0	3/25/97	1718	99708	
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	Ü	0.00	1.00	4.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic I	iydrocarbons -	16 items									
Acenaphthene	U	0.00	1620	3240	ug/kg	10.	DLW 0	3 <i>/</i> 27 <i>/</i> 97	1852	99514	2
Acenaphthylene	U	0.00	1620	3240	ug/kg	1 0.					
Anthracene	U	0.00	1620	3240	ug/kg	10.					
Benzo(a)anthracene	U	0.00	1620	3240	ug/kg	10.					
Benzo(a)pyrene	U	0.00	1620	3240	ug/kg	10.					
Benzo(b)fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Benzo(ghi)perylene	U	0.00	1620	3240	ug/kg	10.					
Benzo(k)fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Chrysene	U	0.00	1620	3240	ug/kg	10,					
Dibenzo(a,h)anthracene	e U	0.00	1 620	3240	ug/kg	10.					
Fluoranthene	U	0.00	1620	3240	ug/kg	10.					
Fluorene	U	0.00	1620	3240	ug/kg	10.					
Indeno(1,2,3-c,d)pyren	e U	0.00	1 620	3240	ug/kg	10.					
Naphthalene	U	0.00	1620	3240	ug/kg	10.					
Phenanthrene	U	0.00	1620	3240	ug/kg	10.					
Pyrene	U	0.00	1620	3240	ug/kg	10.					
PCB analysis - 7 items											
PCB-1016	U	0.00	33.2	41.6	ug/kg	10.	ЛРА О	3/22/97	0452	99445	3
PCB-1221	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1232	U	0.00	33.2	41.6	ug/ kg	10.					
PCB-1242	U	0.00	33.2	41.6	ug/kg	10.					

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STATE GEL EPI E87472/87458 E87156/87294 FL NC SC TN 233 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

	Sample ID		: SPORT0380-2								
Parameter (Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	М
PCB-1248	U	0.00	33.2	41.6	ug/kg	- 10-		•		-	
PCB-1254	U	0.00	33.2	41.6	ug/kg	10.	JPA 03	/22/97	0452	99445	3
PCB-1260	U	0.00	33.2	41.6	ug/kg	10.					
Metals Analysis											
Mercury	J	0.0441	0.0162	0.200	mg/kg	1.0	RMJ 03	3/27/97	1657	99548	N
Silver	J	77.5	41.6	980	ug/kg	2.0	MBL 03	3/28/97	1244	99451	4
Arsenic		2380	270	980	ug/kg	2.0					
Barium		14600	24.2	980	ug/kg	2.0					
Beryllium	J	195	13.2	490	ug/kg	2.0					
Cadmium		1340	20.5	490	ug/kg	2.0					
Chromium		25200	60.9	980	ug/kg	2.0					
Nickel		6070	97.6	980	ug/kg	2.0					
Lead		13600	134	490		2.0					
Antimony	U	164	181	980		2.0					
Selenium	J	475	223	490	- +	2,0					
General Chemistry											
Total Rec. Petro. Hydroc.	arbons	1670	10.0	50.0	mg/kg	1.0	SLR 0	3/ 25/97	1000	99658	5

The following prep procedures were performed:

GC/MS Base/Neutral Compounds PCB's Mercury TRACE

MCS 03/25/97 1500 99514 6 GWL 03/20/97 1652 99445 6 CRB 03/21/97 2130 99548 7 DVW 03/21/97 1930 99451 8

Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)



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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233

SC .10120 1058. TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

^=-**---**

Page 3 of 3

	Sample ID	: SPORT0380	J-2		
Surrogate Recovery	Test	Percent%	Acceptable Limits		
4CMX	РСВ	116.	(36.5 - 172.)	* 1.72	
Bromotluorobenzene	BTEX-8260	110.	(53.5 - 154.)		
Dibromotluoromethane	BTEX-8260	113.	(63.4 - 136.)		
Toluene-d8	BTEX-8260	1 09 .	(72.1 - 137.)		

M = Method	Method-Description			
M 1	EPA 8260			
M 2	EPA 8270			
M 3	EPA 8080			
M 4	EPA 6010A			
M 5	EPA 9071			
M 6	EPA 3550			
M 7	EPA 7471			
M 8	EPA 3050			

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Blakener

Reviewed By



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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 1 of 3

Sample ID

: SPORT0380-3

Lab ID

: 9703404-03

Matrix

: Soil

Date Collected

: 03/19/97

Date Received Priority : 03/19/97 : Routine

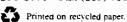
Collector

: Client

Parameter	Qualifler	Result	DL	RL	Units	DF	Analyst Date	Time	Batch	M
Volatile Organics										
BTEX - 4 items										
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	RMB 03/25/97	1750	99708	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0				
Toluene	Ū	0.00	1.00	2.00	ug/kg	1.0				
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0				
Extractable Organics										
Polynuciear Aromatic H	ydrocarbons -	16 items								
Acenaphthene	U	0.00	163	330	ug/kg	1.0	DLW 03/27/97	2131	99514	2
Acenaphthylene	U	0.00	163	330	ug/kg	1.0				
Anthracene	U	0.00	163	330	ug/kg	1.0				
Benzo(a)anthracene	U	0.00	163	330	ug/kg	1.0				
Benzo(a)pyrene	U	0.00	163	330	ug/kg	1.0				
Benzo(b)fluoranthene	1	166	163	330	ug/kg	1.0				
Benzo(ghi)perylene	U	0.00	163	330	ug/kg	1.0				
Benzo(k)fluoranthene	J	189	1 63	330	ug/kg	1.0				
Chrysene	J	189	163	330	ug/kg	1.0				
Dibenzo(a,h)anthracene	U	0.00	163	330	ug/kg	1.0				
Fluoranthene	J	224	163	330	ug/kg	1.0				
Fluorene	U	0.00	163	330	ug/kg	1.0				
Indeno(1,2,3-c,d)pyrene	e U	0.00	163	330	ug/kg	1,0				
Naphthalene	U	0.00	163	330	ug/kg	1.0				
Phenanthrene	U	0.00	163	330	ug/kg	1.0				
Pyrene	J	325	163	330	ug/kg	1.0				
PCB analysis - 7 items										
PCB-1016	U	0.00	33.2	41.6	ug/kg	10.	JPA 03/22/9	7 0528	9944	5 3
PCB-1221	U	0.00	33.2	41. 6	ug/kg	1 0.				
PCB-1232	U	0.00	33.2	41.6	ug/kg	10.				
PCB-1242	U	0.00	33.2	41.6	ug/kg	1 0 .				

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Laboratory Certifications

EPI E87472/87458 STATE **GEL** E87156/87294

10120 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 2 of 3

	Sample II	D	; SPORT0380-3								
Parameter Q	ualifier	Result	DL	RL	Units	DF	Anaiy	yst Date	Time	Batch	M
PCB-1248	U	0.00	33.2	41.6	ug/kg	10.					
PCB-1254	U	0.00	33.2	41.6	ug/kg	10.	ЛΑ	03/22/97	0528	99445	3
PCB-1260	U	0.00	33.2		ug/kg	10.					
Metals Analysis					- •						
Mercury	1	0.0356	0.0154	0.200	mg/kg	1.0	RMJ	03/27/97	1700	99548	N
Silver	U	-110	40.4		ug/kg	2.0	MBL	03/28/97	1249	99451	4
Arsenic		4560	263	952		2.0					
Barium		14400	23.5	952	ug/kg	2.0					
Beryllium	1	301	12.9	476	ug/kg	2.0					
Cadmium		520	19.9	476	ug/kg	2.0					
Chromium		26500	59.1	952	ug/kg	2.0					
Nickel		8750	94.8	952	ug/kg	2.0					
Lead		9520	130	476	ug/kg	2.0					
Antimony	J	243	176	952		2.0					
Selenium		835	217	476	- •	2.0					
General Chemistry					- 0						
Total Rec. Petro, Hydrocar	bons J	20.0	10.0	50.0	mg/kg	1.0	SLR	03/25/97	1000	99658	5

The following prep procedures were performed:

GC/MS Base/Neutral Compounds

PCB's Mercury TRACE

MCS 03/25/97 1500 99514 6 GWL 03/20/97 1652 99445 6 CRB 03/21/97 2130 99548 7 DVW 03/21/97 1930 99451 8

Comments:

Volatile Organics contained matrix interferences.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	75.0	(30.0 - 115.)
Nitrobenzene-d5	M610	77.8	(23.0 - 120.)
p-Terphenyl-d14	M610	92.6	(37.3 - 128.)

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 TN
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 02934

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SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 31, 1997

Page 3 of 3

	Sample ID	: SPORT0380)-3	
Surrogate Recovery	Test	Percent%	Acceptable Limits	
4CMX	PCB	104.	(36.5 - 172.)	151
Bromotluorobenzene	BTEX-8260	112.	(53.5 - 154.)	
Dibromofluoromethane	BTEX-8260	108.	(63.4 - 136.)	
Toluene-d8	BTEX-8260	114.	(72.1 - 137.)	

M = Method	Method-Description	
M 1	EPA 8260	
M 2	EPA 8270	
M 3	EPA 8080	
M 4	EPA 6010A	
M 5	EPA 9071	
M 6	EPA 3550	
M 7	EPA 7471	
M 8	EPA 3050	

Notes:

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I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Parianted Dr

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CHAIN OF CUSTODY RECORD

General Engineering Lab .s, Inc. 2040 Savage Road
Charleston, South Carolina 2907
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Page of												- ~		•			_						(803) 556-8171
Client Name/Facility Na	ame	_					SAM	IPLE /	ANAL'	YSIS I	REQU	IRED	(x) - us	e remai	ks area	to spec	ify spec	ific con	npound	s or me	thods		Use F or P in the boxes to indicate whether
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SAMPLE ID	DATE	TIME	WELL	COMP	# OF (pH, co	TOC/DOC	TOX	Chloric	Nitrie	VOC.	ĀĀ.	Pesticide	Herbicide	Total	Acid E	BAN ES	PCB's	Cyanide	Colifor	18	Ž	Remarks
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Page of	CHAIN OF CUSTODY RECORD 9703505	2040 Savage Road Charleston, South Carolina 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171
Client Name/Facility Name SPORTENY DETCHASH	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods	Use F or P in the hoxes to indicate whether sample was filtered and/or preserved

<i>-</i> -											7	ען י	-			·							(003) 550 0171
Client Name/Facility 1	Name						,	SAM	IPLE .	ANAL	YSIS	REQUI	RED	(x) - us	c rema	irks area	to spec	Ту чрес	ific con	pround	s or met	hods	Use F or P in the boxes to indicate whether
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SAMPLE ID	DATE	TIME	WEI		GRAI	*	Η̈́	ρ	TOX	Chloride, Fluoride, Sulfide	ž	\$3		Pes	弄	Tot	Aci	B.	PCB's	₫	2 S	BTEX	Remarks
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White = sample collector

Yellow = file

Pink = with report

General Engineering I ies, Inc.

NPWF 20197

CHA

	2040 Savage Road
	Charleston, South Carolina 29414
AIN OF CUSTODY RECORD	P.O. Box 30712
	Charleston, South Carolina 29417
9703565	(803) 556-8171

General Engineering Lab

as, Inc.

Client Name/Facility Name				Τ,	-	SAN	1PLL. /	NAL.	SIS	EQUI	RED (x) - usc	remail	ks area	to spec	II y Inc.	dic con	popud	ls or me	thesis			Parathe boxes to to was tiltered at	militarie wheth	ici
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Laboratory Certifications

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STATE	GEL	EPI
FL	E87156/87294	E87472/8
NC	233	
SC	10120	10582
TN	02934	02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1997

Page 2 of 2

Sample ID

: SPORT0397-1

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



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Laboratory Certificati

STATE GEL E87156/87294 E87472/87-FL NC 233 SC TN 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: April 07, 1997

Page 2 of 2

Sample ID

: SPORT0397-2

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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General Enginees 2040 Savage Road Charleston, South

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472 NC 233

SC 10120 IN 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-1	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	•
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Karin Blakeney
Reviewed By

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

EPI STATE GEL E87472/8 FL NC E87156/87294 233

SC 10120 02934 10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-2	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Kaun Blakeney

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Laboratory Certifications

STATE GEL FL E87156/87294 E87472 NC 233 SC 10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-3	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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um Blakeny

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Laboratory Certifications

STATE GEL E87156/87294 E87471 NC 233 10582

10120 02934

02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-4	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Laboratory Certifications

STATE GEL E87156/87294 E87472/87 FL. NC 233 SC 10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample IID	: SPORT0268-5	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Reviewed By

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Laboratory Certifications STATE GEL E87472/L FL NC SC TN E87156/87294 233 10120 10582 02934

02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-6	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
М 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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STATE GEL E87472/87 E87156/87294 10582 10120 02934 02934

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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-7	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

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Reviewed By

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STATE GEL E87156/87294 E87472 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0268-9	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Koun Blakeney
Reviewed By

PO Box 30712 · Charleston, SC 29417 · 2040 Savage Road · 29407

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL E87156/87294 E87472/ FL NC SC TN 233 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID

: SPORT0268-10

	Sample 1D	. 31 OK 10208-10	
M = Method		Method-Description	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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KOMM Blakemy

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL FL NC SC TN E87472 E87156/87294 233 10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPOR T0268-11	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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Reviewed By Blakenly

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL E87156/87294 E87472/874 FL NC 233 SC 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 18, 1996

Page 2 of 2

Sample ID

: SPORT0268-12

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory Certifications

STATE GEL E87472/874 E87156/87294 233 10582 10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 31, 1996

Page 3 of 3

	Sample ID	: SPORT0268-8	
M = Method		Method-Description	
M 2		EPA 8270	
M 3		EPA 6010A	
M 4		EPA 9071	
M 5		EPA 3550	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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m Blakeney

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General Engineering I

Charleston, South Carolina 29417 -

2040 Savage Road Charleston, South Care

P.O. Box 30712

pries, Inc.

29414

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL E87156/87294 E87472/874 FL

NC SC

10120 02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample ID

: SPORT0265-5

M = Method	Method-Description
M 6	EPA 7471
M 7	EPA 3050

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Laboratory Certifications

STATE FL	GEL E87156/87294	EPI E87472/87
NC	233	
§C	10120.	10582
TN	02934	02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

Sample	ID

· SPORT0265-4

	Sample 1D	. 51 OK 10203-4	
M = Method		Method-Description	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/874

 NC
 233
 SC

 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	San	iple	ID	
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: SPORT0265-3

M = Method	Method-Description
M 2	EPA 8270
M 3	EPA 6010A
M 4	EPA 9071
M 5	EPA 3550
M 6	EPA 7471
M 7	EPA 3050

Notes:

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any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.



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Laboratory	Cert	ficat	lons

tandor and y certifications				
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Client;

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 27, 1996

Page 3 of 3

	Sample ID	: SPORT0265-1	
M = Method		Method-Description	
M 6		EPA 7471	
M 7		EPA 3050	

Notes:

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ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472,

 NC
 233
 SC

 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: December 18, 1996

Page 2 of 2

Sample ID

: SPORT0265-6

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Reviewed Rv

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CHAIN OF CUSTODY RECORD

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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/874

 NC
 233
 SC

 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-1

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Laboratory Certifications

STATE	GEL.	EPI
FL	E87156/87294	E87472/87
NC	233	

10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-2

M = Method

Method-Description

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Laboratory Certifications

STATE GEL E87472/874 E87156/87294 NC SC TN 233 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-3

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.



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Laboratory Certifications

STATE FL NC SC TN GEL ÉPI E87156/87294 E87472/874. 233 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-4

M = Method

Method-Description

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/874

NC 233 SC 10120 TN 02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-5

M = Method

Method-Description

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/874

NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-6

M = Method

Method-Description

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/8745 NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-7

M = Method

Method-Description

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Laboratory Certifications

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STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	23 3	
5C	101 20	10582
TN	02934	02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

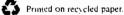
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M = Method

Method-Description

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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/874

 NC
 233
 SC
 10120
 10582

 TN
 02934
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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

: SPORT0450-9

M = Method

Method-Description

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Laboratory Certifications

STATE GEL FL E87156/87294 E87472/87 NC 233 SC TN 10120 10582 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

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North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 3 of 3

Sample ID

in Blakeney

: SPORT0450-10

M = Method

Method-Description

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Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
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 NC
 233
 SC
 10120
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 TN
 02934
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Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00197

Report Date: June 02, 1997

Page 2 of 2

Sample ID

: SPORT0450-11

M = Method

Method-Description

Notes:

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3 Blazeney

Reviewed Bl

indicates that a quality control analyte recovery is outside of specified acceptance criteria.

NUM 60010]

CHAIN OF CUSTODY RECORD

General Engineering L: ies, Inc. 2040 Savage Road
Charleston, South Caroh... _9414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458

NC 233 SC 10120

02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-1R 9610068-01

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit,

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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Laboratory Certifications

 STATE
 GEL
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1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-2R 9610068-03

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

 STATE
 GEL
 EPT

 FL
 E87156/87294
 E87472/87458

 NC
 233
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-3R 9610068-05

 $M \simeq Method$

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233

NC 233 SC 10120 TN 02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-4R 9610068-08

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Laboratory Certifications

STATE GEL EPI FL E87156/87294 E87472/87458 NC 233 SC 10120 10582 TN 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-5R 9610068-09

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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Kaun Blakeney
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Laboratory Certifications

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233 SÇ 10120 02934

TN

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

c: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-6R 9610068-12

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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Blakene



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Laboratory Certifications

STATE GEL E87472/87458 E87156/87294 NC 233

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02934

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-7R 9610068-13

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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Blakene



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Laboratory Certifications

STATE GEL E87472/87458 E87156/87294

NC SC 10120

10582 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-8R 9610068-16

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit,

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

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no Blakene



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Laboratory Certifications

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 E87472/87458

 NC
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 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

ec: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT-0189-9R 9610068-17

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL), indicates that the analyte was not detected at a concentration greater than the detection limit, indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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MR 110. DC 0010P

CHAIN OF CUSTODY RECORD

General Engineering Laboratories, Inc. 2040 Savaga Road Charleston, South Carolina 29414 PO Box 30712 Charleston, South Carolina 29417

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Laboratory Certifications

STATE FL	GEL. E87! 56/87294	EPI E87472/8745
NC	233	
SC	10120	10582
TN	02934	02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: October 14, 1996

Page 2 of 2

Sample ID

: SPORT0189-2

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit

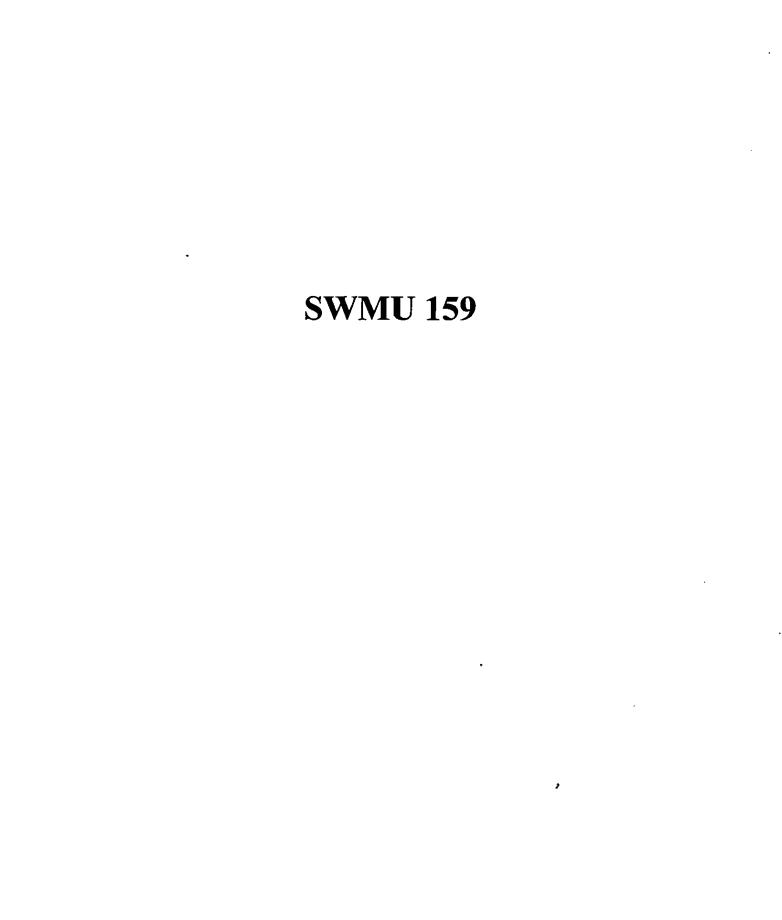
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Karen Blakeney
Reviewed By

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General Engineering cs, Inc. 2040 Savage Road Charleston, South Caronna 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171 29417

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General Engineering s, Inc. 2040 Savage Road Charleston, South Caronna 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

Page 2 of 3	,			ľ	/ []	Æ	17	(J)	rt	U	91	U	עי	Y .	KĽ		OI	XD					Charleston, South Carolina 29417
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SPORTO164-25			X	X	2																X	X	NBCH1595002501
5PORTO164-4	19/19/96	6750	<u> </u>)	4	<u> </u>									<u>L</u>						X	X	NBCH159C001301
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General Engineering ies, Inc. 2040 Savage Road Charleston, South Caronna 29414 P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

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Client Name/Pacifity Na	ame	<u> </u>		<u> </u>		SAM	PLE	NAL	'SIS R	EQUU	RED (XJ- us	e temar	ks area	ta speci	fy spec	rfie cor	npound	s or inc	thods			in the boxes to in		
SPORTENY		HASN		RS.		Н.		\sqcup	Щ.,				LL.	┞┸┤	Щ		<u> </u>	Ш.		الج		sample	was filtered and/e	or preserved	
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SPORTENY	DETP	NASN		15	ictiv	ا ا		Fluo	trate	e eif	- ₽			Jou l	acta	octa			, -	3.5					
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SAMPLE ID	DATE	TIME	SOIL COMP	GRAB 4 OF CONTAINERS	pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pestícide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Colife	BTEX AND WAD WAD WAD			Remark	ks	
SPORTCK42	7 9/18/6	0740		X 3	3								 							X		NBCH	159T	00770	1
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	General Engineering Let (), h
	2040 Savage Road
	Charleston, South Caro . 4
AIN OF CUSTODY RECORD	P.O. Box 30712
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	(803) 556-8171

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SAMPLE ID	DATE	TIME	WELL SOIL COMP	GRAB + OF CONTAINERS	pH. conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	(RKB)	Pesticide	Herbicide	Total Phenoi	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform	Hdt		Remarks
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General Engineering Lab 2040 Savage Road Charleston, South Caro. 414 **CHAIN OF CUSTODY RECORD** P.O. Box 30712 Charleston, South Carolina 29417 (803) 556-8171

s, Inc.

Client Name/Facility Na	ıme				Ī	H	SAN	IPLE A	NALY	/SIS F	REQU	RED (x) - os	e remar	ks area	to speci	ify spec	dic con	npound	s or me	thods		Use I or P in the hoves to indicate whether
SPORTENY	DETC	HASN			ERS			Н	ı,			-	┞╨			ا							sample was filtered and/or preserved
Collected by/Company					NIE	i i i		×	юнid	le	if. uired	S ecil			_	table	ables			pecif			
SPORTENY	DETC	HASI	Y] NO	duct	ĕ	LLI.	e Fil	Nitra	Speci requ	SS	يو ا	de	heno	trac	tract		ىد	·	I		
SAMPLE ID	DATE			COMP	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX/EOX	Chloride, Fluoride, Sulfide	Nitrile/Nitrate	VOC - Specify Method required	SEE.	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanido	Coliform - specify type	1 p.		Remarks
SPORT \$219-1	KH 2594	\$94Y	1	<u> </u>	4			X				X		A							X	/	VBCH 1595 PP 32 qq
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Relinquished by: William W. Jan Relinquished by:	ulls)	Daye, 19/25/16	Tim /¢	e: \$44	Rece	ived b) [R.	H	ر ارو	J.	4	Relin	quishe	d by:	2.	ابو	ىد		1.	Date	zsky I	5)TCLP METALS me: Recorded A: Lio Chilade 453 / Lio Chilade
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Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

STATE GEL EPI FL NC SC TN E87472/8745 E87156/87294 233 10582

10120 02934 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment



cc: NPWC00196

Report Date: November 04, 1996

Page 1 of 2

Sample ID Lab ID

: SPORT0219-1 : 9610544-01

Matrix Date Collected Date Received

: Soil : 10/25/96 : 10/25/96 : Routine

Priority Collector

: Client

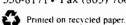
Parameter Q	ualifier	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch	M
Metals Analysis											
Mercury	J	0.0203	0.00231	0.200	mg/kg	1.0	RMJ	10/28/96	2137	92944	:
Silver	U	42.6	244	980	ug/kg	2.0	NRM	10/31/96	1837	92887	
Arsenic		4220	182	980	ug/kg	2.0					
Barium		14600	6.50	980	ug/kg	2.0					
Beryllium	J	341	1.12	490		2.0					
Cadmium	U	-40.5	9.51	490		2.0					
Chromium		17900	58.4	980	ug/kg	2.0					
Nickel		5050	79.1	980	ug/kg	2.0					
Lead		11 100	111	490	ug/kg	2.0					
Antimony	U	-646	93.9	980	ug/kg	2.0					
Selenium		794	140	490	ug/kg	2.0					
General Chemistry											
Total Rec. Petro. Hydrocarl	oons J	20.0	10.0	50.0	mg/kg	1.0	TSM	10/28/96	1000	92916	2
Extractable Organic Halide		8.25	4.83	15.0		1.0	SJ	10/29/96	1525	92929	3

The following prep procedures were performed:

Mercury TRACE

RMJ 10/28/96 1600 92944 4 FGD 10/29/96 1500 92887

M = Method	Method-Description	
M 1	EPA 6010A	
M 2	EPA 9071	
M 3	GEL	
M 4	EPA 7471	
M 5	EPA 3050	







Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

02934

STATE GEL E87472/8745 E87156/87294 NC SC TN 233 10582 10120

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 1 of 2

02934

Sample ID Lab ID

: SPORT0219-1 : 9610544-02

Matrix Date Collected Date Received

: TCLP : 10/25/96 : 10/25/96

Priority Collector : Routine : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analy	st Date	Time	Batch	M
Metals Analysis											
Silver	U	-0.00931	0.00780	0.500	mg/l	1.0	JSS	10/31/96	1233	93018	
Arsenic	U	-0.161	0.0421	0.500	mg/l	1.0					
Barium	J	0.109	0.00220	10.0	mg/l	1.0					
Cadmium	U	0.00201	0.00330	0.100	mg/l	1.0					
Chromium	U	0.00384	0.00420	0.500	mg/l	1.0					
Lead	U	0.0247	0.0364	0.500	mg/l	1.0					
Selenium	U	-0.0309	0.0841	0.300	mg/l	1.0					
Mercury	U	-0.000280	0.000148	0.0200	mg/l	1.0	RMJ	10/31/96	1540	93078	2

The following prep procedures were performed:

FGD 10/30/96 1730 93018 3 **ICP** Mercury RMJ 10/30/96 1430 93078 4 10/28/96 1435 92934 5 TCLP Prep for Metals

M = Method	Method-Description
M 1	EPA 6010A
M 2	EPA 7471
M 3	EPA 3005
M 4	EPA 7470
M 5	EPA 1311

9610544-02



Meeting today's needs with a vision for tomorrow.

Laboratory Certifications

 STATE
 GEL
 EPI

 FL
 E87156/87294
 E87472/87457

 NC
 233
 SC
 10120
 10582

 TN
 02934
 02934

Client:

Supervisor of Ship Building & Conversion

SUPSHIP-Portsmouth Detachment-Env.

1899 North Hobson Ave.

North Charleston, South Carolina 29405-2106

Contact:

Mr. Bill Hiers

Project Description:

SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: November 04, 1996

Page 2 of 2

Sample ID

: SPORT0219-1

M = Method

Method-Description

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

I indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Reviewed By

^{*} indicates that a quality control analyte recovery is outside of specified acceptance criteria.